

T. N. KASTERINA

Urea-formaldehyde resins. G. S. Petrov and T. N.
Kasterina. Russ. 52,455, Jan. 31, 1938. Urea and CH₂O
are condensed in the presence of sulfonic acids with an av
mol. wt. above 250.

AMSLA METALLURGICAL LITERATURE CLASSIFICATION

Kastorina, T.N.

Rapid method of determining hexamethylene-triamine in
resins and molding powders. T. N. Kastorina and M. V. Gulyayeva
Barullia, Khim. Prom. 1954, No. 4, 40-1. As reagent a
soln. contg. 12.7 g. of I and 18 g. of KI in 1 l. of H_2O is used.
Cover a 1-g. sample in a flask with 50 ml. H_2O and shake for 1
hr. Filter into a 50-ml. volumetric flask, wash residue with
3-5 ml. H_2O , and add H_2O to mark. Place 8 ml. of filtrate
into a flask provided with a ground-glass stopper, add drop-
wise 30 ml. of reagent, stirring periodically, filter imme-
diately into a 50-ml. volumetric flask, and add H_2O to mark.
Titrate 25 ml. of the filtrate with 0.1 N thiosulfate soln.
M. Hesch



KASTERINH, T. N.

Acceleration of the method of determining double bonds
in synthetic resins by the use of a catalyst. T. N. Kaster-
in, V. V. Repotova, and O. S. Shevchenko. Zavodskaya
Lab. 21, 408-10 (1955). Pyridine sulfate bromide was used

for detg. residual double bonds in resins prep'd. from allyl
esters. Agreement within 3.2-0.5 units was generally ob-
tained with theory. The reagent can be used also for detn.
of furyl alc. The reagent is prep'd. from pyridine, AcOII,
and Br₂ and is added in CCl₄ soln. of the sample with addn. of
2.5% Hg(OAc)₂ catalyst, followed by 15% KI soln. The
iodine liberated after 1 min. is titrated with thiosulfate (cf. —
Bentam, C.A. 44, 5110e). G. M. Kosolapoff

2 May

RE
MEI

BK

ACCESSION NR AM4008933

BOOK EXPLOITATION

s/

Kasterina, Tat'yana Nikolayevna; Kalinina, Lidiya Sergeyevna

Chemical methods in the study of synthetic resins and plastics (Khimicheskiye metody issledovaniya sinteticheskikh smol i plasticheskikh mass), Moscow, Goskhimizdat, 1963, 284 p. illus., biblio., fldd. chart. Errata slip inserted. 10,000 copies printed.

TOPIC TAGS: plastics, synthetic resin, linked polymerization, polycondensation, cellulose, plasticizers, chemical analysis, phenol aldehyde resin, amide resin, amino formaldehyde resin, polyester resin, polyamide resin, polyurethan, epoxy
PURPOSE AND COVERAGE: The book describes chemical methods of studying synthetic resins and plastics. The book is intended for engineers and technicians of the plastics industry and workers in chemical analytical laboratories who study polymer materials.

TABLE OF CONTENTS [abridged]:

Foreword -- 5
Introduction. Classification of plastics -- 7

Card 1/2

CERVINKA, Oliver, inz.; KASTIEL, Kazimir, inz.; BUTT, Ladislav, inz.

Use of ultraviolet absorption spectrophotometry in the cellulose industry. Pt.3. Papir a celulosu 19 no.2:36-38 F'64.

1. Vychodoslavenske celulozky a papierne, Hencovce (for Cervinka, and Kastiel). 2. Katedra chemickej technologie dreva a chemickych vlaken, Slovenska vysoka technicka, Bratislava.

HERMANSKY, F.; HRODEK, O.; HERMANSKA, Z.; VITEK, J.; KASTILOVA, B.

Antithrombin activity in the neonatal period. Cas. lek. cesk. 101
no.39:1173-1177 28 S '62.

1. Laborator pro patofyziologii krvetvorby a jater pri I interni
klinice fakulty všeobecného lekarství KU v Praze, prednosta prof. dr.
V. Honig. II dětská klinika fakulty dětského lekarství KU v Praze,
prednosta prof. dr. J. Houštek Ustřední hematologická laboratoř
fakultní nemocnice v Praze, prednosta MUDr. M. Suchan.
(THROMBIN) (INFANT NEWBORN)

HERMANSKY, F.; HERMANSKA, Z.; VITEK, J.; KASTILOVA, B.

On the problem of the level of antithrombin activity. Sborn lek.
65 no.1:8-20 Ja '63.

1. Laborator pro patofyziologii krvetvorby a jater pri I. interni klinice
fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta
prof. dr. V. Heonig Ustredni hematologicke laboratoire fakultni
nemocnice v Praze 2, prednosta MUDr. M. Suchan.
(FIBRINOGEN) (BLOOD COAGULATION FACTORS) (THROMBIN)

HERMANSKY, F.; HERMANSKA, A.; PRASIOVA, O.; KASTILOVA, B.

On the behavior of coagulation inhibitors in chronic hepatopathies.
Cas. lek. cesk. 103 no.45:1237-1241 6 N '64.

1. Laborator pro patofyziologii krvetvorby a jater pri I. interni
klinice fakulty vseobecneho lekarstvi Karlovy University v Praze,
(prednosta prof. dr. V. Hoenig) a Ustredni hematologicke laboratore
fakultni nemocnice v Praze 2 (vedouci MUDr. M. Suchan).

KASTITADZE, K. F.

7892. KASTITADZE, K. F. Chto dolzhna znat' mat' o difterii. tbilisi, Gruzmedgiz,
1954. 20 s. 20 sm. (B-KA San. prosveshcheniya). 3.000 EKZ. 20 K.--NA gruz. yaz.--
(55-3823)

616.931

SO: Knizhuaya Letopis', Vol. 7, 1955

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030013-4

KASTKIN, V.P.

Mean β -particle energy at various depths in an air-equivalent medium. Atom. energ. 6 no.5:581-582 My '59. (MIRA 12:5)
(Beta rays)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030013-4"

L 13593-66

ACC NR: AP6006083

SOURCE CODE: CZ/0053/65/014/004/0313/0313

AUTHOR: Suva, J.; Kastlova, B.; Prochazkova, B.; Musil, F.

ORG: Institute of Pharmacology, Medical Faculty, Plzen (Farmakologicky ustav lek. fak.); Central Laboratory ZUNZ ZVIL, Plzen (Ustredni lab. ZUNZ ZVIL)

TITLE: Changes in the concentration of esterified fatty acids and cholesterol in the liver following administration of orotic acid and vitamine B sub 12 [This paper was presented during the Twelfth Pharmacologic Days, Smolenice, 28 Jan 65.]

SOURCE: Ceskoslovenska fysiologie, v. 14, no. 4, 1965, 313

TOPIC TAGS: aliphatic carboxylic acid, vitamin, liver, aromatic carboxylic acid, heterocyclic base compound, biologic metabolism, biochemistry, pharmacology, drug effect

ABSTRACT: Orotic acid 1% in purified diet of rats for 21 days with or without B₁₂ i.p. 50, 100, 300 and 500 µg/Kg. produced considerable difference in esterified fatty acids in the liver. Orotic acid alone increased liver fat, B₁₂ decreased it; the highest dose of B₁₂ decreased esterified fatty acids, even orotic acid-fed animals. Total increase of lipids was predominantly due to triglycerides. [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 002

Card 1/1 Hw

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030013-4

KASTNER, Frantisek

Water conservation by sugar mills in the German Democratic Republic.
Listy cukrovar 80 no. 6:150-156 Je '64.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030013-4"

KASTNER, Frantisek

Water conservation in the Czechoslovak sugar factories. Pt.1.
Listy cukrovar 81 no.4:78-83 Ap '65.

1. Association o" Sugar Factories, Prague. Submitted
February 25, 1965.

KASTNER, M.; LIST, J.

Improving the manufacturing process of lecithin by a deodorization process
and by introducing K. Fischer's method for water determination . p. 18

Prumysl Potravin. (Ministerstvo potravinarskyho prumyslu) Praha, Czechoslovakia
Vol. 10, no. 1, Jan. 1959

Monthly List of East European Accessions (EEAI), LV, Vol. 8, no. 7, July 1959
Uncl.

KASTNER, Vaclav

Manufacture of silicon carbide saggers. Sklar a keramik 12
no.4:117-119 Ap '62.

1. Vyzkumny ustav elektrotechnicke keramiky, Hradec Kralove.

L 34925-66 EWP(k)/EWP(t)/ETI LJP(c) ID/HW
ACC NR: AP6026626 SOURCE CODE: CZ/0034/66/000/004/0244/0250

AUTHOR: Smid, Vladimir (Engineer); Onderka, Miroslav (Engineer); Kastnerova, Milena (Engineer)

ORG: Institute for Research and Testing, NHKG, Ostrava (Vyzkumny a zkusebni ustav NHKG)

TITLE: Basic open-hearth deep-drawing steel with better mechanical properties designed for dynamically stressed motor car parts

SOURCE: Hutnické listy, no. 4, 1966, 244-250

TOPIC TAGS: automotive industry, metal drawing, plasticity, low carbon steel, tensile strength, mechanical stress

ABSTRACT: Automobile parts subject to mechanical stresses should be pressed out of steel having good plastic properties and high tensile strength. Low carbon steel containing over 1% Mn and some V proved to be most suitable. Deoxidation should be made with siliconmanganese and ferromanganese; aluminum and ferrovanadium should be added to the stream of tapped steel. Good practical results were obtained with test parts made from this steel. The authors thank Engineer Vaclav Rohlen for assistance with the experimental smelting. Orig. art. has: 9 figures and 4 tables. [Based on authors' Eng. abst.] [JPRS: 36,646]

SUB CODE: 13, 11 / SUBM DATE: none / ORIG REF: 012 / SOV REF: 002 / OTH REF: 005
Card 1/1 UKR UDC: 669.14.018.282

0910 2300

KASTOR, O.

Treatment of varicose ulcer. Cesk. derm. 31 no.3:165-166 June 56.

1. Z KUNZ v Karlovyh Varech.
(VARICOSE VEIN, ulcer,
ther. (Cz))

KASTOR, O.

Therapy of shin ulcer by rehabilitation. Borgyogy. vener. szemle
11 no.2-3:52-56 Apr-June 57.

1. A karlovy-vary-i (karlsbadi)korzeti korhaz bor- es nemiosztalyarol
(vezeto foorvos Mndr. Kastor O.)
(LEG, ulcers
exercise ther. of shin ulcers (Hun))
(EXERCISE THERAPY, in various dis.
ulcers of shin (Hun))

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030013-4

KASTORIN, A. i POPUGAYEV, M.

20000 KASTORIN, A. i POPUGAYEV, M. Opyt osvoyeniya travopol' noy sistemy zemledeliya
v kolkhozakh Sapatoyskoy oblasti. sots. sel. khoz-vo, 1949, No. 6, s. 51-58.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva, 1949.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030013-4"

1. KASTORTIN, A. A.
2. USSR (600)
4. Vegetable Gardening
7. Brigades in fruit culture and vegetable gardening. Sad i og., No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

KASTORIN, Aleksandr Aleksandrovich, kand.ekon.nauk. Prinimali uchastiye:
AVERKIYEV, N.P., dotsent; ALEKSEYEV, T.D., dotsent. YEFIMOV, A.L.,
red.; DRANNIKOVA, M.S., tekhn.red.

[Problems of economics and organization in the agriculture of the
U.S.S.R. for study in school; manual for teachers] Nekotorye
voprosy ekonomiki i organizatsii sel'skogo khozaiistva SSSR dlia
izuchenija v shkole; posobie dlia uchitelja. Moskva, Gos.uchebno-
pedagog.izd-vo M-va prosv.RSFSR, 1961. 290 p. (MIRA 14:6)

1. Leningradskiy sel'skokhozyaystvennyy institut (for Averkiyev,
Alekseyev).
(Agriculture--Economic aspects)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030013-4

KASTORIN, A.A., kand.ekonom.nauk

Specialization in animal husbandry in the northwestern zone.
Zhivotnovsdstvo 24 no.9:3-8 S '62. (MIRA 15:12)
(Russia, Northwestern—Stock and stockbreeding)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030013-4"

BADAR'YAN, G.G.; TYUTIN, V.A.; CHEREMUSHKIN, S.D.; ZUZIK, D.T.;
KHODASEVICH, B.G.; PRAYER, S.V.; GUSAROV, Ye.I.; KAZANSKIY,
A.M.; KASSIROV, L.N.; KARAYEV, S.A.; AFRAMOV, V.A.;
VASIL'YEV, N.V.; BUGAYEV, N.F.; SAPIL'NIKOV, N.G.; KASTORIN,
A.A.; RUDNIKOV, V.N.; YAKOVLEV, V.A.; PERENYKIN, V.I.;
ISAYEV, A.P.; KUZ'MICHEV, N.N.; IL'IN, S.A.; PRONIN, V.A.;
LUK'YANOV, A.D.; SHAKHOV, Ya.K.; IL'ICHEV, A.K., kand. sel'-
khoz. nauk; KOGAN, A.Ya.; TSYNKOV, M.Yu.; BABIY, L.T.;
GORBUNOV, I.I.; KOVALEV, A.M.; ROMANCHENKO, G.R.; BRODSKAYA,
M.L., red.; IVANOVA, A.N., red.; GUREVICH, M.M., tekhn. red.;
TRUKHINA, O.N., tekhn. red.

[Economics of agriculture]Ekonomika sotsialisticheskogo sel'-
skogo khoziaistva; kurs lektsii. Moskva, Sel'khozizdat, 1962.
710 p. (MIRA 15:10)

(Agriculture—Economic aspects)

KASTORNAYA, M.A.; CHERTKOVA, M.A.

Pulmonary concentration of streptomycin following various methods of administration. Antibiotiki 1 no.3:26-27 My-Je '56. (MLRA 9:10)

1. L'vovskiy nauchno-issledovatel'skiy institut tuberkuleza.

(LUNGS, metabolism,

streptomycin, concentration in various modes of admin.(Rus))

(STREPTOMYCIN, metabolism,

lungs, concentration in various modes of admin. (Rus))

KASTORMAYA, M.A., kandidat meditsinskikh nauk

Changes in the thoracic wall in extrapleural eleothorax. Probl. tub.
34 no.3:64-65 My-Je '56. (MIRA 9:11)

1. Iz L'vovskogo nauchno-issledovatel'skogo instituta tuberkuleza
(dir. G.I.Chemeris, nauchnyy rukovoditel' - prof. I.T.Stukalo)
(COLLAPSE THERAPY
eleothorax, extrapleural, causing inflamm. of thoracic
wall)

KASTORNAYA, M.A.

Mechanism of the action of pneumoperitoneum and methods for its application in medical practice [with summary in French]. Probl. tub. 36 no.1:38-40 '58. (MIRA 11:4)

1. Iz L'vovskogo nauchno-issledovatel'skogo instituta tuberkuleza
(dir. G.I.Chemeris, nauchnyy rukovoditel' - prof. I.T.Stukalo)
(PNEUMOPERITONEUM, ARTIFICIAL
mechanism of action in dogs (Rus))

PODUSOVSKIY, V.F.; KASTORNAYA, M.A. [deceased]; YAMPOL'SKIY, V.B.

Morphological changes in the brouchi in resected lungs from
patients and their relation to postoperative complications.
Probl. tub. 42 no.3:70-74 '64. (MIRA 18:1)

1, L'vovskiy nauchno-issledovatel'skiy institut tuberkuleza
(direktor G.I.Chemeris, nauchnyy rukovoditel' - prof. I.T.
Stukalo) i L'vovskaya oblastnaya protivotuberkuleznaya bol'nitsa
(glavnyy vrach V.N.Kishakevich).

BABIY, Ye.; ZYUBIN, S.; ANTYUKHOV, A.; KAMCHATOV, K.; DOLGOVA, L.; KASTOR-NOV, M.,mekhanik; GOL'TSEV, M.; KUZ'MIN, I.,mekhanik; PAVLOV, N.,mashinist kombayna; SMETANKIN, P.,mashinist kombayna; SAFONOV, M.,mashinist kombayna; KOZLOV, N.,brigadir gornorabochikh; BUYAK, I.,brigadir gornorabochikh; SOLDATOV, N.,brigadir gornorabochikh.

Not into the records but into practice. Sov.shakht. 12 no.12:17-
18 D '63. (MIRA 17:3)

1. Shakhtoupravleniye No.3-25 tresta Donskoyugol' kombinata Tula-ugol'. 2. Nachal'nik shakhtoupravleniya No.3-25 tresta Donskoyugol' kombinata Tulaugol' (for Babiy). 3. Sekretar' partorganizatsii shakhtoupravleniya No.3-25 tresta Donskoyugol' kombinata Tulaugol' (for Zyubin). 4. Glavnnyy inzh. shakhtoupravleniya No.3-25 tresta Donskoyugol' kombinata Tulaugol' (for Kamchatov). 5. Sekretar' komsomol'-skoy organizatsii shakhtoupravleniya No.3-25 tresta Donskoyugol' kombinata Tulaugol' (for Dolgova).

~~Kastornov, V.~~

Why do wage overpayments show up. Fin.SSSR 18 no.9:70-71 S '57.
(MIRA 10:10)

1. Glavnyy kontroler-revizor Kontrol'no-revisionnogo upravleniya
Ministerstva finansov RSFSR po Tul'skoy oblasti.
(Tula Province--Wages)

KASTORNOVA, M.D.

Pneumonia in the newborn. Pediatriia 39 no.1:75-76 Ja-F '56.

(MLRA 10:1)

1. Iz Stavropol'skoy detskoy klinicheskoy bol'nitsy (glavnnyy vrach
Ye.I.Androsova) i kafedry detskikh bolezney (zav. - prof. A.M.
Kropachev) Stavropol'skogo meditsinskogo instituta.
(PNEUMONIA) (INFANTS (NEWBORN)--DISEASES)

USSR/Farm Animals. Small Horned Stock.

Q

Abs Jour: Ref Zhur-Biol., No 20, 1958, 92616.

Author : Ipyrin, A.I., Donskaya, V.I., Kastornova, Ye. K.

Inst : All-Union Scientific Research Institute for Sheep
and Goat Breeding.

Title : Comparative Appraisal of Diverse Methods of Double
Insemination in Sheep.

Orig Pub: Byul. nauchno-tekhn. inform. Vses. n.-i. in-ta ovt-
svodstva i kozovedstva, 1956 (1957), No 3(25), 189-194.

Abstract: One obtained from the second insemination made 8 hours
after the selection of sheep as test animals (the
first insemination was performed immediately upon
selection) 76.2 and 84.1% lambing in the ewes, and
65.7 and 80% after 24 hours. The method of insemina-

Card : 1/2

KASTORNOVA, Ye. K.

Country : USSR
CATEGORY : Farm Animals. Sheep

ABSTRACT JOUR. : RZBiol., No. 13, 1958, No. 59555

AUTHOR : Lopyrin, A. I.; Donskaya, V. I.; Kastornova,
INST. : "
TITLE : Fertilization of Sheep under Different
Methods of Twofold Insemination

ORIG. PUB. : Ovtsevodstvo, 1957, No 9, 19-21

ABSTRACT : On the basis of two-year experimentation, it
is recommended to effect the second insemina-
tion (during the same heat period) not
after 24 but after 8 hours.

* Ye. K.

CARD: 1/1

KOZIN, N.I.; KASTORNYKH, M.S.

Effect of production processes on the tocopherol content of
vegetable oils. Izv.vya.ucheb.zav.; pishch.tekh. no.6:66-74
'59. (MIRA 13:5)

1. Moskovskiy institut narodnogo khozyaystva imeni G.V.Plekhanova.
Laboratoriya zhirov.
(Tocopherol) (Oils and fats)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030013-4

MARTINSON, Ye.N.; ZAKHAROVA, M.P.; ALASHKEVICH, M.L.; KHOKHLOV, I.M.;
KHOKHLOV, I.M.; SHIRYAYEV, A.G.; KASTORNYKH, M.S.

Obtaining vitamin E concentrates by means of high-vacuum distil-
lation. Trudy VNIVI 6:75-81 '59. (MIRA 13:7)
(DISTILLATION) (TOCOPHEROL)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721030013-4"

ZAKHAROVA, M.P.; KASTORNYKH, M.S.

Isolation of tocopherols by chromatography. Trudy VNIVI 6:
88-92 '59. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
Biokhimicheskaya laboratoriya.
(TOCOPHEROL)

KOZIN, N.I., doktor tekhn.nauk; FASTORNYKH, M.S.

Effect of different processes on the tocopherol content of
vegetable oils. Report No.1. Masl.-zhir.prom. 26 no.1:5-8
Ja '60. (MIRA 13:4)

1. Moskovskiy ordena Trudovogo Krasnogo Znameni institut
narodnogo khozyaystva imeni G.V.Plekhanova.
(Oils and fats--Analysis) (Tocopherol)

KASTORNYKH, M. S., Cand Tech Sci -- (diss) "Staple commodity characteristics and dietary value of vegetable oils (based on tocopherol content) in dependence on various methods of their processing." Moscow, 1960. 20 pp; (Moscow Order of Labor Red Banner Inst of Consumer Economy im G. V. Plekhanov); 110 copies; free; (KL, 26-60, 135)

KOZIN, N.I., doktor tekhn.nauk; KASTORNYKH, M.S.

Study of the effect of production processes on the content of
tocopherols in vegetable oils. Masl.-zhir.prom. 26 no.6:8-9
J₆ '60. (MIRA 13:6)

1. Moskovskiy ordena Trudovogo Krasnogo Znameni institut narodnogo
khozyaystva imeni G.V.Plekhanova.
(Oils and fats--Analysis) (Tocopherol)

KOZIN, N.I., doktor tekhn.nauk; CASTORNYKH, M.S., kand.tekhn.nauk

Separation of phytosterols from the wastes of oil deodorization.
Masl.-zhir.prom. 29 no.7:21-22 J1 '63. (MIRA 16:9)

1. Institut narodnogo khozyaystva imeni G.V.Plekhanova.
(Oil industries--By-products) (Phytosterols)

KASTORSKA, Ye. A.

KASTORSKA, Ye. A. - "The Structure-Forming Role of a Legume-Grain Grass Mixture and the Nitrogen Cycle in the Soil in Annual and Biannual Use of Perennial Grass in Crop Rotation." Sub 12 Jun 52, All-Union Sci Res Inst of Fertilizers, Agricultural Engineering, and Soil Science. (Dissertation for the Degree of Candidate in Agricultural Science).

SO: Vechernaya Moskva January-December 1952

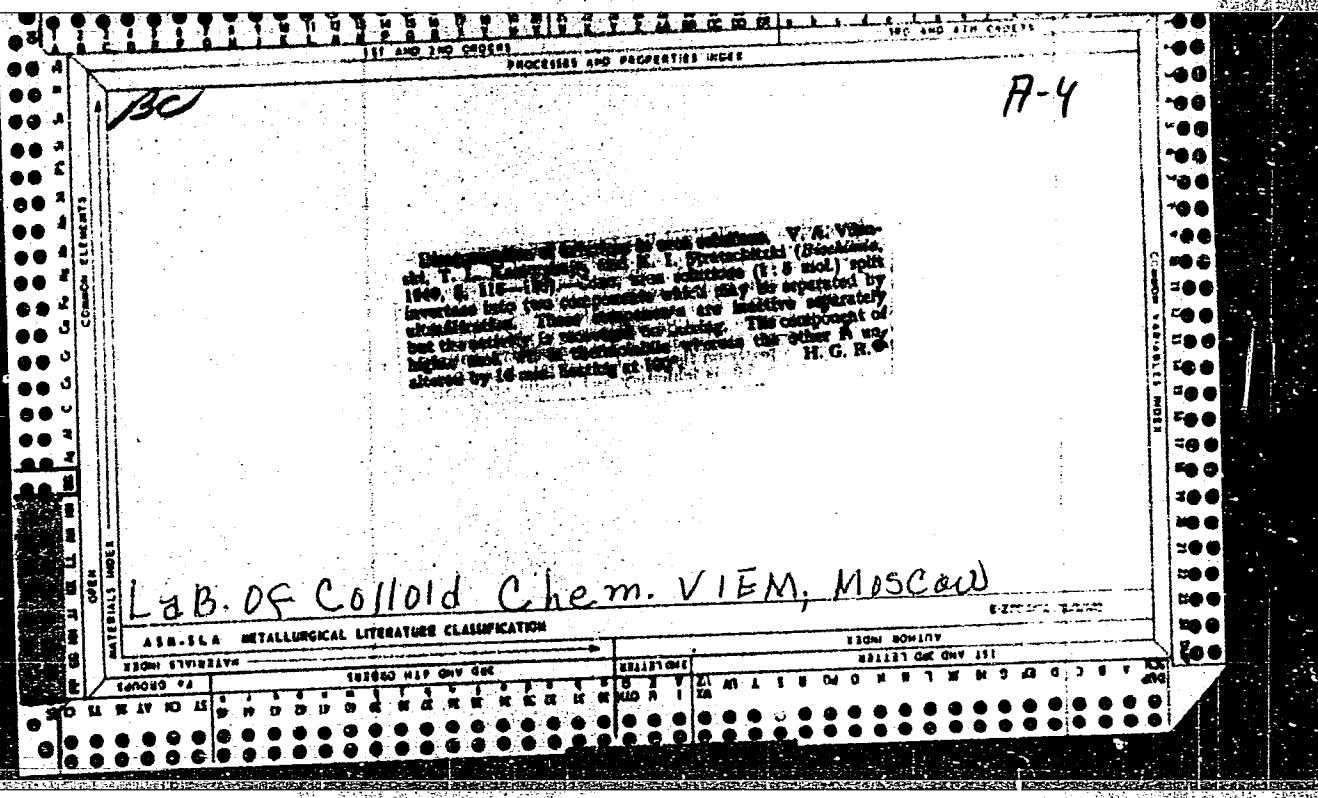
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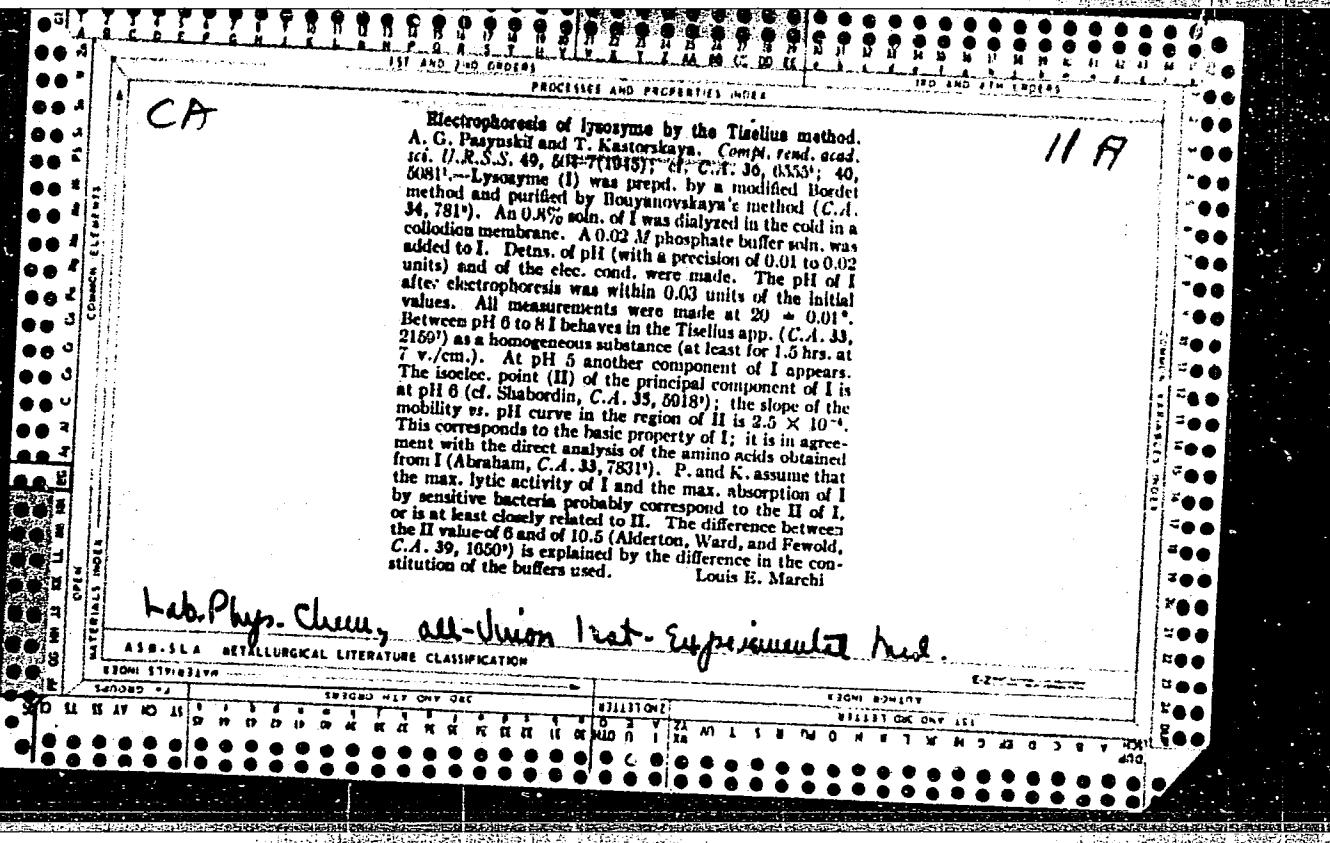
2

PRICES AND FREQUENCIES

Determination of the molecular weight of casein in phenol solutions. V. A. Bilenskii and T. L. Kastorkaya. *Colloid J.* (U. S. S. R.) 2, 193-21 (1930). The osmotic pressures of solns. of casein in phenol in mm. of H₂O at 45° were: 46 at 0.5%, 71 at 1%, 109 at 2%, 129 at 3%. The mol. wt. at infinite diln. is then 25,000. Casein is held to consist of very complex aggregates which under the action of certain solvents dissociate to less-complex fractions of variable mol. wts.
F. H. Rathmann

AS-4-SEA METALLURGICAL LITERATURE CLASSIFICATION





KASTORSKAYA, T. L.

Feb 1946

USSR/Medicine - Penicillin, Determination
Chemistry - Electrokinetics

"New Electrokinetic Method of Assaying Penicillin," W. A. Dorfman, T. L. Kastorskaya,
Physicochemical Laboratory, Biochemistry of Microbes Dept, All-Union Institute of
Experimental Medicine, Moscow, 6 pp

"Mikrobiologiya" Vol XV, No 1

A new method is suggested for assaying penicillin as well as other antibiotics. This
is based on the increase of zeta-potential of susceptible bacteria acted upon by
the antibiotic. This method is more sensitive than those based on common bacteriologi-
cal procedures, does not require sterilization nor bacterial growth and the measure-
ments may be completed within less than one hour. Includes a drawing and tables.

PA40T53

KASTORSKAYA, T.

USSR/Medicine - Penicillin
Medicine - Biochemistry

Nov/Dec 47

"Physicochemical Mechanisms of the Action of Penicillin," A. Pasynskiy, T. Kastorskaya, Lab. of Phys. Chem., Inst. of Biol. Prophylaxis of Infections, 12 pp

"Biokhim" Vol XIII, No 6

Direct micromamamometric studies proved penicillin is absorbed by *Staphylococcus aureus*. The authors that part of the mechanism of the action of this penicillin is dependent on the action of this substance on enzymes in the bacterial cells.

62/49T48

USSR/Medicine - Penicillin (Contd)

Nov/Dec 47

Established limits of oxidation-reduction potentials of bacterial cells (*Staphylococcus aureus*) and explained significance of conditions surrounding this process in the cells due to penicillin.

Submitted 6 Feb 47.

62/49T48

KASTORSKAYA, T.

(2)

Effect of detergents on the sensitivity of *Proteus vulgaris* and *Escherichia coli* toward penicillin. T. Kastorskaya and A. Pasynskii. *Doklady Akad. Nauk S.S.R.* 73, 393-5 (1950).—To each of a series of physiol. solns., pH 7.4 ± 0.1 was added one of 20 different concn. detergents in concn. 1-2%; the solns. were heated at 80° for 1 hr., cooled, filtered under sterile conditions, and mixed with the pure cultures of *Proteus vulgaris* (I) and *E. coli* (II), resulting in a 0.05-1% (approx. 0.01-0.02M) final concn. of the detergents. The sensitivity of the bacteria was detd. by a standard titration method using the physiol. solns. without detergents as blanks. The threshold of the sensitivity of I toward penicillin was lowered by 13 detergents (even more than 100 times by Na *p*-hexadecylbenzenesulfonate). The role of the detergents was to increase the penetrating ability of penicillin into the protoplasm of I by affecting the cell membranes. Penicillinase (not affected by detergents) in II eliminated any effect of detergent on sensitivity of II toward antibiotic. E. Wierbicki

Reel # 210

Kasdov, T.D.

to

Kastorskaya, T.

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